**Supplementary Table S1. Primers used in this study**

|  |  |  |
| --- | --- | --- |
| **Purpose** | **Gene names** | **Primer sequences** |
| Full length cloning | HmoWRKY40 | ATGGATTATTCAACGTGGTTAAGCTCAGC |
| ATCAGTTGAGGTTTGTGCAGATCTCC |
| Promoter cloning | HmoCYP76AD1 | GACATAAGACTCAATTTACTTGGAA |
| AGTTATGAAGTAAAAGATTGAGGCA |
| RT-qPCR | HmoWRKY40 | GTAATGAGTTGGTGGGCAAT |
| AGCCTCTTCCTTTGGTTTCT |
| HmoCYP76AD1 | GCTCCAGCCGAACCATACCC |
| TCTTCCTAAAACTCCGCCAT |
| Subcellular  localization | HmoWRKY40 | GGTATCGATAAGCTTATGGATTATTCAACG |
| CATACTAGTGGATCCATCAGTTGAGGTTTG |
| Trans-activation  activity assay | pGBKT7-HmoWRKY40 | catatggccatggaggccgaattcATGGATTATTCAACGTGGTTAAGCTCAGC |
| ggccgctgcaggtcgacggatcc TTAATCAGTTGAGGTTTGTGCAGATCTCC |
| Yeast one-hybrid | pGADT7-HmoWRKY40 | CAGTGAATTCCACCCGGGATGGATTATTCAACGTGGTTAAGCTCAGC |
| TATCGATGCCCACCCGGGATCAGTTGAGGTTTGTGCAGATCTCC |
| pAbAi- HmoCYP76AD1 | AAAAGCTTGAATTCGAGCTCGACATAAGACTCAATTTACTTGGAA |
| GAGCACATGCCTCGAGAGTTATGAAGTAAAAGATTGAGGCA |
| Dual LUC  assay | PEAQ-HmoWRKY40 | CAAATTCGCGACCGGTATGGATTATTCAACGTGG |
| AGTTAAAGGCCTCGAGTTAATCAGTTGAGGTTTG |
| LUC- HmoCYP76AD1 | CTATAGGGCGAATTGGGTACCGACATAAGACTCAATTTACTTGGAA |
| CGCTCTAGAACTAGTGGATCCTTATGAAGTAAAAGATTGAGGCA |
| VIGS | pTRV2-HmoWRKY40 | gcctccatggggatcATGGATTATTCAACGTGGTTAAGCT |
| cttcgggacatgcccTTAATCAGTTGAGGTTTG |

**Supplementary Text S1.** Nucleotide sequence of *HmoCYP76AD1* promoter. W-box (T/C)TGAC(T/C) is indicated in box. Translation start site (ATG) is shown in red.

*>*HmoCYP76AD1

GACATAAGACTCAATTTACTTGGAAAAACGTTTTCCACAGAAAATGATTTCTTGGAAAAAATTGTTTTCCGCAAAAAATGATTTTTCGAGAAAACAACTTCCTTTGGAACAAAACACTATCTTAATTAAAACATCTTATATGTGCTTTGGAAGGACACGCACCACGTATATGATTTTTTATTGGACATTTCATTTGTATATTTCAATAAACTTTTTTGTAGACAACATCAATCTCTTTGTCCTTAATTATAAACCCTTAAAAATTATATTTCACATCTTTTCATTATGTCAACAAAAAAATCCTATGAGATATATAGCATTTTGCACTGAATAAAAATGACCATATTTAAATGGAAAGAAAAAAATCATGTACAATTTCAAATTTCAGCATTTTTTTTTAATAATTGAAGCCAAAGGCGGGCCATGGCAGGAGCAGTAAAACAGATAACTTATTTGGCCGGCACTTGCAAGTAACCAAAGGATCGCACCACCTCCGCTGGTCTGTAAATAATATTGTCCAGCCTAAAATTGATCCATCAACCTAACCTAAATTTTATAGAATAGAATAACTGACTCAGCTCAAGAGATCGGTCTGTTGTCAAACCTCAGCCTCACTAGCTCATTCAAAATAATTTTCACTATTGCCAAATCTCCTCTTATGGTTCTCCAAACATTATGCACACCCATGCCTAGCTGGATTCCCTTTCCTACCTACATGCACATGTGTGTTTATAAATGTATGTCTGCAAATGTTCGCTTATCA**AGTCAA**GGTGAACGTACGCCAATAAGCCTGCATGTATTACATGCATACGCATTCCTAGCTAGCTAAAATTCCCTGCATTCTCTCTCTCCTTCTCTCATCCTCCCCCCCCCCCCCTTCCCAAAAGCATG

**Supplementary Text S2.** cDNA sequences of *HmoWRKY40* and *HmoCYP76AD1*.

>*HmoWRKY40*

ATGGATTATTCAACGTGGTTAAGCTCAGCTTCATTGGATCTGAGTCGTAGCAATGATCACAATCATGGCAATGACAATACGCTCCGGCTTTTCGATGATTCTCCTGTTCGGGATGGTCTTAAGACTGCCATCAAAGTTGAGACGATCCAAACCTGCAGCTCCAATGAAGTTGATCGCCAACCTTTGATCAAAGATGAGGCAGGAGTTCTGATGGAAGAGTTGAAGAAGGCAAACGAAGAGAACAGGAGGTTAACCGAAATGTTAACGGTCGTATGTGACAATTACAATGATTTGAAGAGGCAGTTGGCGGATTACATGACTAAAGCTGCAAGTAATGAGTTGGTGGGCAATGTGGCCAAGAAAAGAAAGATCGAGAATTCCACCAATAGTAATAACAACAACAATAACAACAACAGTAACAAGATTATTGGCAGTAATAATGTCGACAGTGGTTCGAGCGATGAAGAAGATTCGTGTGAGAAACCAAAGGAAGAGGCTATTAAAGCCAAGGTCACCAGAGTTGCTGTTCGAACTGAAGCTTCTGACTCCACCCTTATCCTGAAGGATGGATATCAATGGAGGAAATACGGGCAAAAGGTGACTAGGGATAACCCTTGCCCTAGAGCTTACTTCAAGTGCTCCTTCGCGCCTAGTTGTCCGGTTAAAAAGAAGGTTCAAAGAAGTCTAGAAGACCAATCAATGCTAGTTGCAACCTACGAAGGGGAGCACAACCATGCACCTCCATCCCAACAGGAGCCAGCACTGGGCCCAAACCGGTCCTTCAGCCTCGGCTCCGTCGCATGTAACGCGACCCTAGCCTCATCCGGACCCACAGTCACTCTTGACCTAACCAAGCCCAAGCCTAGCACTGCTAAAAATGACACAACTCCAAAAACATTAAGCAGCAATAACGTCAGTTCTGCCCAACTGTTGAAATTCAACTCCCCTGAATTTCAGAAGCTTTTGGCAGAACAAATGGCTTCTTCTTTGACAAAAGATCCCAACTTCACAGCTGCTCTTGCTGCTGCCATTTCTGGGAGATCTGCACAAACCTCAACTGATTAA

> *HmoCYP76AD1*

ATGGATAGCCCAACCCTCTCGCTTTTCATCTTTGCCTCAATCTTTTACTTCATAACTTTTCAAATTGTGAAGCTAGGGTTTAATGTGGTCATGACCTCTAAAAAAACCAAAAGAAGAAGACCCCCCTTACCTCCGGGCCCCAAGCCATTGCCCATCATAGGCAATGTGCTCGAGCTCGGGCCGAAGCCACACCGCTCGTTCGCCGACCTAGCCAAGGTCCATGGTCCACTCATGTCCCTCCGGCTAGGTAGTGTGACCACGATTATCGTGTCATCCTCTGATGTTGCCAAAGAAATGTTCCTTAAAAATGACCAACCCTTGAGCTCCAGCCGAACCATACCCAACTCAGTCACGGCTGGGGATCACCACATGCTGACCATGTCTTGGCTCCCAGTCTCCCCCAAATGGCGGAGTTTTAGGAAGATCACCACCTTCCACCTTCTCTCCCCCCAGCGCCTCGATGCTTGCTCTAGCCTTAGGCAAGCCAAGGTGCAGCAGCTATTCGAGTACGTTCTGGAATGTTCTAGAACCGGCCAGGCCGTCGATATAGGCAAGGCTGCTTTCACGACGTCCCTTAACTTGTTGTCCAAGCTGTTTTTTTCTTTAGAGTTGGCTCACCATAGATCTAGCAAGTCTCAAGAGTTTAAGGACTTAATTTGGGATATTATGGAGGATATTGGGAAGCCTAATTACGCGGATTATTTCCCATGCTTAAAGTACTTTGACCCATGTGGAATACGACGTCGTTTGGCAAATAGTTTTGAGAAATTAATTGAGGTCTTTCAAGGTATTATTCGTCAAAGGCTATCCCTGTCATCTGGCTCTCATACTCATAATGATGTGTTAGATGTTCTTCTTCAATTGTACAACCAAGAGGAACTCACCATGGACGAGATAAACCATCTGCTCGTGGATATATTTGATGCCGGAACAGACACCACTTCCAGTACATTTGAATGGGCCATGGCTGAGTTAATTAAAAATCCGACGATGATGGAGAAAGCTCAAGCTGAAATCAAAGTGGTTCTTGGGAAACAGTCGCATATTCAAGAGTCCGATATCCCAAAATTGCCTTATTTGCGGGCAATTATCAAAGAAACATTGCGTCTACACCCTCCTACTGTATTCCTCCTACCTCGTAAGGCTGAGACCGATGTGGAACTCTATGGCTACACCGTACCAAAAAATGCACAAATACTGGTGAACTTGTGGGCCTTAGGTCGAGACCCCAAAGTTTGGGAAAACCCAGAGGTGTTCTTACCTGAAAGGTTCCTGACTTGCGACATCGATGTTAAAGGAAGAGATTTTGGACTACTGCCTTTTGGGGCAGGAAGGCGAATATGTCCTGGGATGAATTTGGCGTACAGAATGCTGACCTTAATGCTCGCTACGCTTCTACAATCGTTTGATTGGAAACTCCCAAATGAGATGAACTCCAAGAATTTGGACATGGATGAAAAGTTTGGAATAGCATTGCAAAAGACTAAACCCCTTGAAATTATTCCCGTTTGCAAGGATTGA